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AN OCCUPATIONAL PROFILE

OF

FEDERAL GOVERNMENT EMPLOYMENT

IN

MASSACHUSETTS

1977

REPORT NUMBER 10

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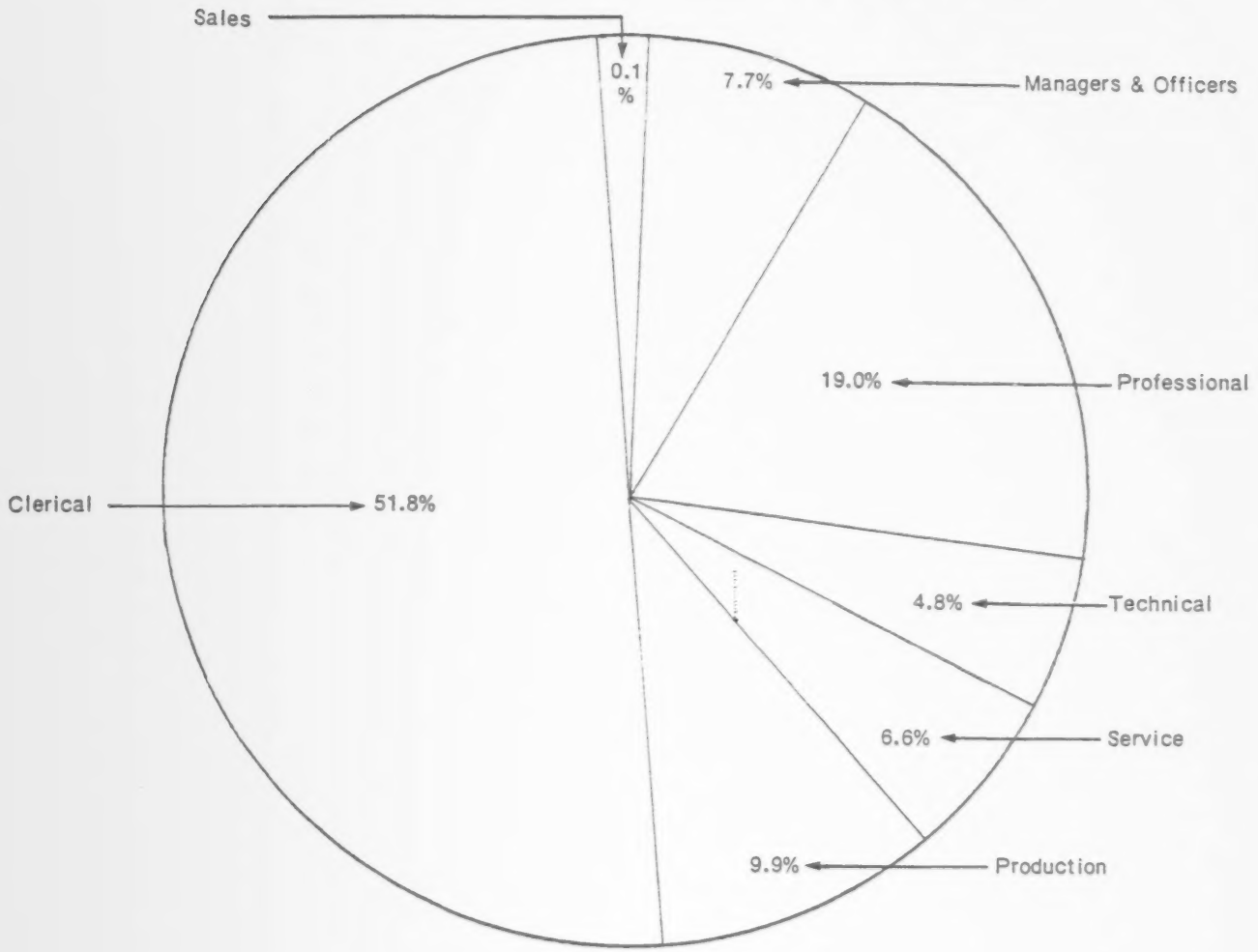
INTRODUCTION

In lieu of each State carrying out an independent survey of occupational employment in the Federal Government, the Bureau of Labor Statistics purchased from the Office of Personnel Management data relating to employment of workers of approximately 2,400 occupations in the Federal sector. These data were obtained from the Central Personnel Data System and converted to the Occupational Employment Statistics classifications.

The data includes full-time temporary, full-time permanent, part-time temporary, and part-time permanent employees on the Federal Payroll as of October 1977. While some employment in the Federal Judicial Branch is not included it would appear that nearly all the universe is accounted for in Massachusetts.

FEDERAL GOVERNMENT

DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL GROUPS



OCCUPATIONAL GROUP	EMPLOYMENT	PERCENTAGE
Managers, Officers, Inspectors	4,475	7.7
Professional Occupations	11,061	19.0
Technical Occupations	2,801	4.8
Service Occupations	3,863	6.6
Production & Maintenance Occupations	5,739	9.9
Clerical Occupations	30,162	51.8
Sales Occupations	96	0.1
All	58,197	100.0

EMPLOYMENT DISTRIBUTION AND NET CHANGE
BY MAJOR OCCUPATIONAL CATEGORY

Occupational Category	Employment 1974	1977	Change
Total Employment	57,219	58,197	+ 978
Managers, Officers, and Public Administration Inspectors	4,061	4,475	+ 414
Professional Occupations	9,605	11,061	+ 1,456
Technical Workers	2,424	2,801	+ 377
Service Workers	3,997	3,863	- 134
Production & Maintenance	6,408	5,739	- 674
Clerical Workers	30,627	30,162	- 465
Sales Workers	97	96	- 1

The comparison shown in the table above, as well as comparisons with other interim reports, clearly shows that the growth occupations are primarily in the Professional category.

The following occupations account for most of this growth over the three year period.

Civil Engineers	+ 45
Electrical and Electronic Engineers	+ 27
Chemists	+ 24
Biological Scientists	+ 55
Economists	+ 20
Psychologists	+ 38

Purchasing Agents	+ 56
Accountants and Auditors	+ 222
Case Workers	+ 32
Lawyers	+ 28
Registered Nurses	+ 182
Personnel and Labor Relations Specialists	+ 66
Physicians and Surgeons	+ 374

Although there were some professional occupations showing a downward trend, the only significant one was Physicists with a drop of 37 (over 10 percent). The New England Regional Office of the Bureau of Labor Statistics recently published "Employment Outlook for 1980 College Graduates in New England". The part of this report dealing with employment prospects in the Federal sector indicates that the growth opportunities are still in the professions. We quote from that report:

"June graduates in most fields seeking to enter the federal service are once again faced, not only with intense competition from those candidates scoring in the high 90's in the Professional and Administrative Career Examination (PACE) as in the past, but also by the recently enacted freeze in hiring in the federal service. Current starting salaries are either $11,243 or $13,925 depending on the Federal grade level. Engineering and computer science graduates are the exception with good opportunities existing throughout New England for those trained in these fields. Specific needs are for electrical/electronic, mechanical, nuclear and facilities engineers. Starting pay rates for engineers are at an all time high with starting salaries of $18,100 for bachelor degree holders and $21,011 for those with a graduate degree. For mining and petroleum

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engineering graduates who are interested in working outside the New England area the starting salary is $22,147.

For those engineers interested in working in New England opportunities exist at the Portsmouth Naval Shipyard, Hanscom Air Force Base, the Naval Underwater System Center and the Transportation System Center. For the non-engineering graduate best hiring prospects are generally in the mid-West but more specifically in the Detriot and Chicago metropolitan areas".

For your convenience the General Pay Scale effective October 9, 1979 is shown below:

Grade	Rates									
	1	2	3	4	5	6	7	8	9	10
GS-1	$7,210	$7,450	$7,690	$7,930	$8,170	$8,410	$8,650	$8,890	$9,902	$9,126
GS-2	8,128	8,399	8,670	8,902	9,002	9,267	9,532	9,797	10,062	10,327
GS-3	8,952	9,250	9,548	9,846	10,144	10,442	10,740	11,038	11,336	11,634
GS-4	10,049	10,384	10,719	11,054	11,389	11,724	12,059	12,394	12,729	13,064
GS-5	11,243	11,618	11,993	12,368	12,743	13,118	13,493	13,868	14,243	14,618
GS-6	12,531	12,949	13,367	13,785	14,203	14,621	15,039	15,457	15,875	16,293
GS-7	13,925	14,389	14,853	15,317	15,781	16,245	16,709	17,173	17,637	18,101
GS-8	15,423	15,937	16,451	16,965	17,479	17,993	18,507	19,021	19,535	20,049
GS-9	17,035	17,603	18,171	18,739	19,307	19,875	20,443	21,011	21,579	22,147
GS-10	18,760	19,385	20,010	20,635	21,260	21,885	22,510	23,135	23,760	24,385
GS-11	20,611	21,298	21,985	22,672	23,359	24,046	24,733	25,420	26,107	26,794
GS-12	24,703	25,526	26,349	27,172	27,995	28,818	29,641	30,464	31,287	32,110
GS-13	29,375	30,354	31,333	32,312	33,291	34,270	35,249	36,228	37,207	38,186
GS-14	34,713	35,870	37,027	38,184	39,341	40,498	41,655	42,812	43,969	45,126
GS-15	40,832	42,193	43,554	44,915	46,276	47,637	48,998	*50,359	*51,720	*53,081
GS-16	47,889	49,485	*51,081	*52,677	*54,273	*55,869	*57,465	*59,061	*60,657	
GS-17	*56,099	*57,969	*59,839	*61,709	*63,579					
GS-18	*65,750									

* The rate of basic pay for employees at these rates is limited to $50,112.50, in accordance with section 5308 of title 5 of the United States Code, and section 101(c) of Public Law 96-86.

FEDERAL GOVERNMENT
RANKED OCCUPATIONAL EMPLOYMENT
1977

	Occupation	Employment
1.	Postal Mail Carrier/Postal Distributor	16,507
2.	General Clerk	3,188
3.	All Other Managers	3,107
4.	Postal Service Clerk	2,701
5.	All Other Unskilled Laborers	1,622
6.	Accountants/Auditors	1,589
7.	Nurse Aides/Orderly	1,451
8.	Typist	1,241
9.	Secretary	1,091
10.	Registered Nurse	1,034
	Total	33,534

These ten occupations which account for 57.2 percent of total Federal employment in Massachusetts accounted for 59.2 percent in 1974. Since 1974 the total in these occupations has declined by 374. The most significant changes were in Postal Mail Carriers which had a drop of 1,050, and All Other Managers and Officers with an increase of 398.

Occupational Staffing Patterns in Federal Government
as of October 1977

Occupational Title	Estimated Employment	Percent of Total 1/ Employment
TOTAL ALL OCCUPATIONS	58,197	100.00
Managers, Officer, and Public Administration Inspectors	4,475	7.69
Public Administration Inspectors, except Construction	898	1.54
Construction Inspectors	80	0.14
Postmaster and/or Mail Superintendent	390	0.67
All Other Managers	3,107	5.3
Professional Occupations	11,061	19.00
Aeronautical and Astronautical Engineer	49	0.08
Agricultural Engineer	1	--
Chemical Engineer	15	0.03
Civil Engineer	430	0.74
Electrical & Electronic Engineers	447	0.77
Industrial Engineer	45	0.08
Mechanical Engineer	184	0.32
Metallurgist and Metallurgical Engineer	24	0.04
Safety Engineer	11	0.02
Ceramic Engineer	11	0.02
Nuclear Engineer	2	--
All Other Engineers	274	0.47
Financial Analyst	29	0.05
Mathematicians.	52	0.09
Statisticians	35	0.06
All Other Mathematical Scientists	85	0.14
Chemist	289	0.50
Geologists and Geophysicists	101	0.17
Meteorologist	39	0.06
Oceanographer	10	0.01
Physicists	287	0.50
All Other Physical Scientists	187	0.32
Agricultural Scientist	11	0.02
Biological Scientists	217	0.19
Forester and Conservation Scientist	32	0.05
Economist	139	0.23
Psychologist	165	0.28
Sociologist	8	0.01
Urban and Regional Planner	15	0.02
All Other Social Scientists	84	0.14
Systems Analyst E. D. P.	190	0.32
Teacher Adult Education	92	0.15
Photographer	30	0.05
Purchasing Agent/Buyer	522	0.89
Accountants/Auditors	1,589	2.73

Federal Government (cont.)

Occupational Title	Estimated Employment	Percent of Total 1/ Employment
Landscape Architect	5	--
Architect	42	0.07
Archivist	17	0.02
Case Worker	214	0.36
Clergy	36	0.06
Commercial Artist	35	0.06
Dentist	59	0.10
Dietition/Nutritionist	40	0.06
Writer/Editor	58	0.09
Law Clerk	62	0.10
Lawyer	311	0.53
Librarian	51	0.08
Model Maker	30	0.05
Curator, Museum	12	0.02
Registered Nurse	1,034	1.77
Occupational Therapist	48	0.08
Optometrist	5	--
Paralegal Personnel	19	0.03
Personnel/Labor Relations Specialists	488	0.83
Pharmacist	45	0.07
Physical Therapist	36	0.06
Physician/Surgeon	1,011	1.73
Podiatrist	6	0.01
Public Relations Practitioners	56	0.09
Veterinarian	14	0.02
Designer	30	0.05
Judge	42	0.07
Tax Examiner/Collector/Agent	767	1.31
All Other Therapists	7	0.01
Appraiser Real Estate	38	0.06
Home Economist	10	0.01
Group Recreation Worker	17	0.02
Speech and Hearing Clinicians	14	0.02
Corrective Therapist	23	0.03
All Other Professionals	678	1.16
Technical Workers	2,801	4.81
Computer Programmer	43	0.07
Drafters	40	0.06
Electrical/Electronic Technicians	297	0.51
Surveyor	34	0.05
Radiographer	2	--
Broadcast Technician	40	0.06
All Other Engineering Technicians	398	0.68
Physical Science Technician	213	0.36
Biological Science Technician	327	0.56
All Other Science Technicians	59	0.10
Air Traffic Controller	302	0.51
Dental Assistant	58	0.09
Mathematical Technician	4	--
Physicians Assistant	7	0.01
Museum Technician/Restorer	4	--
Airplane Pilot	39	0.06

Federal Government (cont.)

Occupational Title	Estimated Employment	Percent of Total 1/ Employment
Technical Assistant Library	29	0.04
Therapist (Manual Arts, Music, Recreation	13	0.02
Pharmacy Helper	26	0.04
Medical Record Librarian	32	0.05
Dental Hygienist	9	0.01
Medical Laboratory Technologist	221	0.37
Nuclear Medical Technologist	8	0.01
Radiologic Technologist	75	0.12
Prosthetist Orthotist	13	0.02
Electrocardiograph Technician	69	0.11
All Other Medical/Dental Technicians and Technologists	116	0.19
All Other Technical Occupations	323	0.55
Service Workers	3,863	6.63
Maid	1	--
All Other Janitors/Porters/Cleaners	682	1.17
Guards/Watchman/Doorkeepers	100	0.17
Baker Bread/Pastry	10	0.01
Butcher/Meat Cutter	45	0.07
Cook Institutional	72	0.12
All Other Food Service Workers	538	0.92
Barber	9	0.01
Cosmetologist/Hair Stylist	2	--
Housekeeper	10	0.01
Nurse Aide/Orderly	1,451	2.49
Recreation Facilities Attendant	1	--
Fish and Game Warden	19	0.03
Elevator Operator	27	0.04
Social Service Aide	7	0.01
Occupational Therapy Aide	49	0.08
Officer Police	192	0.32
Detective Police	416	0.71
United States Marshall	26	0.04
Fire Fighter	205	0.35
All Other Service Workers	1	--
Production and Maintenance Workers	5,739	9.86
Mechanic Aircraft	313	0.53
Mechanic Automotive	193	0.33
Body Repairer Automotive	21	0.03
Electromedical Equipment Repairer	16	0.02
Gunsmith	6	0.01
Engineering Equipment Mechanic	77	0.13
Hydroelectric Machinery Mechanic	4	--
Instrument Man Optical	4	--
Laundry Machine Mechanic	3	--
Locksmith	6	0.01
Marine Mechanic	13	0.02
Mechanic Maintenance	519	0.89
Office Machine Servicer	8	0.01
Refrigeration Mechanic	77	0.13
Electronics Mechanic	232	0.39

Federal Government (cont.)

Occupational Title	Estimated Employment	Percent of Total 1/ Employment
Data Processing Mechanic	4	--
Gas and Electric Appliance Repairer	1	--
All Other Mechanics and Repairers	110	0.18
Developer/Projection Printer	1	--
Marker, Classifier, Assembler (Laundry/Dry Cleaner)	70	0.12
Washer, Machine/Starcher	19	0.03
Machine Presser Laundry	4	--
Truck Driver	378	0.64
Asbetos and Insulation Worker	2	--
Blacksmith	5	--
Boilermaker	7	0.01
Blueprinting Machine Operator	2	--
Cabinetmaker	18	0.03
Cable Splicer	19	0.03
Carpenter	129	0.22
Crane/Derrick/Hoist Operator	18	0.03
Crater	10	0.01
Electrician	173	0.29
Exterminator	7	0.01
Supervisor Nonworking, except Service	96	0.16
Heavy Equipment Operator	49	0.08
Hook and Chain Operator	13	0.02
Industrial Truck Operator	94	0.16
Inspector	23	0.03
Installer Repairer Telephone	14	0.02
Instrument Repairer	1	--
Line-Installer Repairer	2	--
Locomotive Engineer	1	--
Machinist	60	0.10
Maintenance Repairer General Utility	132	0.22
Millwright	4	--
Oiler	4	--
Painter	99	0.17
Plasterer	1	--
Plater	1	--
Plumber/Pipefitter	148	0.25
Motion Picture Projectionist	2	--
Roofer	2	--
Rotary Drill Operator	6	0.01
Dental Laboratory Technician	17	0.02
Sandblaster/Shotblaster	1	--
Sewage-Plant Operator	13	0.02
Sewing Machine Operator, Regular Equipment	15	0.02
Sheet Metal Worker	52	0.08
Stationary Boiler Firer	246	0.42
Stationary Engineer	20	0.03
Stonemason	25	0.04
Alteration Tailor	1	--
Animal Caretaker	12	0.02
Water Treatment Plant Operator	3	--
Welders and Flamecutters	25	0.04
Offset Lithographic Press Operator	49	0.08
Platemaker	1	--

Federal Government (cont.)

Occupational Title	Estimated Employment	Percent of Total 1/ Employment
Stripper (Printing)	3	--
Camera Operator	6	0.01
Strike on Machine Operator	4	--
Auto Service Station Attendant	47	0.08
Stock Clerk, Sales Floor	77	0.13
Highway Maintainer	3	--
Furniture Finisher	1	--
Instrument Maker	14	0.02
Lathe/Turning Machine Operator	1	--
Machine Tool Operator Combination	11	0.01
Machine Tool Operator Tool Room	1	--
Molder Bench/Floor	3	--
Pattern Maker Metal	1	--
Pattern Maker Wood	1	--
Sample Maker	1	--
Saw Filer	2	--
Ship Fitter	14	0.02
Shipwright	5	--
Woodworking Machine Operator	0	--
Painter Production	3	--
Loading Machine Operator	1	--
Dip Plater	2	--
Screenmaker Photographic	1	--
Artificial Appliance Maker	2	--
Planner Operator	0	--
Bindery Worker	11	0.01
Gardeners and Groundskeepers	10	0.01
Ordinary Seaman	17	0.02
Ship Engineer	7	0.01
All Other Skilled Craftworkers	7	0.01
All Other Operatives and Semiskilled Workers	160	0.27
All Other Laborers	1,622	2.78
Clerical Workers	30,162	51.82
Bookkeeping and Billing Machine Operator	2	--
Computer Operator	151	0.25
Keypunch Operator	579	0.99
Tabulating Machine Operator	20	0.03
Calculating Machine Operator	4	--
All Other Office Machine Operators	31	0.05
Stenographer	817	1.40
Accounting Clerk	702	1.20
Bookkeeper Hand	124	0.21
Cashier	109	0.18
Claim Adjuster	112	0.19
Claims Clerk	358	0.61
Correspondence Clerk	4	--
General Clerk	3,188	5.47
Information Clerk	280	0.48
Mail Clerk	410	0.70
Payroll/Timekeeping Clerk	149	0.25
Personnel Clerk	327	0.56
Procurement Clerk	181	0.31

Federal Government (cont.)

Occupational Title	Estimated Employment	Percent of Total 1/ Employment
Real Estate Clerk	82	0.14
Receptionist	23	0.03
Secretary	1,094	1.87
Statistical Clerk	38	0.06
Switchboard Operator	118	0.20
Messenger	10	0.01
Travel Clerk	26	0.04
Typist	1,241	2.13
Clerical Supervisor	53	0.09
Postal Service Clerk	2,701	4.64
All Other Office Clerical Workers	120	0.20
Production Clerk	77	0.13
Shipping Packer	12	0.02
Shipping and Receiving Clerk	25	0.04
Stock Clerk (Storeroom and Warehouse)	72	0.12
Dispatcher	18	0.03
Postal Mail Carrier/Postal Distribution Workers	16,507	28.36
All Other Plant Clerical Workers	397	0.68
Sales Workers	96	0.16
Sales Clerks	96	0.16

1/ Detail may not add to totals due to rounding.